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U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 48.

November 15, 1941

VOLUME TABLE ^{1/}
for
BLACK CHERRY
(Prunus serotina)

Ashtabula, Monroe, Muskingum, Perry, Pike, Portage, Richland, Ross and
Stark Counties, Ohio

Merchantable Stem to a Variable Top Diameter INTERNATIONAL Rule (¹/₄" Kerf)

Diameter breast high outside bark (inches)	Gross volume of stem in 12.3-foot logs to merchantable height					Top d.i.b. at merchantable limit	Basis in trees
	1 log	2 logs	3 logs	4 logs	5 logs		
	<u>Bd.ft.</u>	<u>Bd.ft.</u>	<u>Bd.ft.</u>	<u>Bd.ft.</u>	<u>Bd.ft.</u>	<u>Inches</u>	<u>Number</u>
9	22	38	52			7.0	16
10	28	48	67			7.1	
11	35	60	83			7.3	27
12	42	73	101	128		7.5	
13	51	89	122	154		7.8	28
14	61	105	145	182	218	8.2	
15		123	170	214	255	8.6	30
16		143	197	248	297	9.1	
17		164	227	286	341	9.6	21
18		188	259	327	390	10.3	
19		213	294	370	442	11.0	12
20			331	417	498	11.7	
21			371	467	557	12.5	3
22			412	519	619	13.4	
23			457	575	687	14.4	2
24			505	635	759	15.4	
25				698	834	16.6	
26				764	912	17.7	

Basis in trees-- number	2	21	64	41	11	--	138
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1/ Trees measured by J. W. Girard in 2-inch diameter classes and in 10- to 16-foot log lengths above a 1-foot stump and scaled as such. Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) is .981. Band of the standard error of estimate is 87.2 to 114.6 percent. Block shows limits of basic data.

The total estimated gross volume of single black cherry trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through experience of millmen as regards losses from rot, shake, etc., in utilizing this species.

R. E. Emmer

